

The Finnovators

NHS Robotics

Newport High School, Newport, OR, USA

The Team

Competition History: The Finnovators team and all of its members are new competitors. This is the first time for every team member to participate in a MATE robotics competition.

Members:

Gatlin Andrews (Grade 11) - Chief Executive Officer
Jostan Brown (Grade 11) - Operations
Natalie DeWitt (Grade 11) - Marketing
Alex Rash (Grade 11) - Design Integration
River Rundell (Grade 10) - Government / Regulatory Affairs
Ryan Russell (Grade 11) - Systems Engineering

Distance to Internationals:

Approx. 1,870 miles / 3,010 kilometers

Hours Worked: 1,006 combined

The ROV

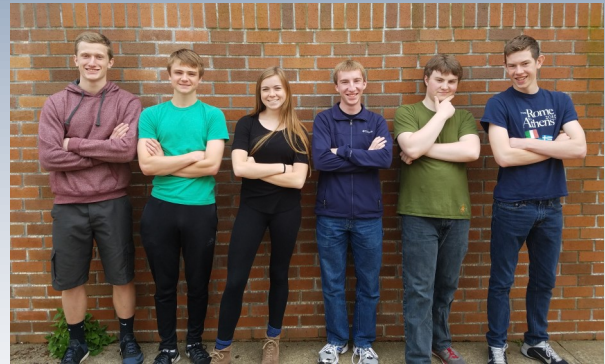


Safety Features:

- Shrouds around motors
- Fuse to prevent overcurrent
- Moving components are labeled
- Emergency shutoff switch
- Low PSI pneumatic system

Special Features:

- Custom pressure housings
- 3D printed claw designed for specific tasks
- Guided by Xbox controller for simplistic control
- Low budget ROV
- Multiple cameras for better viewing



(From left to right): Jostan B, Alex R, Natalie D, Gatlin A, River R, Ryan R

Mentors:

Alex Turpin - Overall Design
Ben Capshaw - Pneumatics / Electronics
John Estabrook - Programming
Jordan Colmenaro - Electronics
Liz Fox - Coordination

Ayjacks

Total Cost: \$986.80

Primary Material: PVC

Dimensions: 31 x 31 x 31cm